

AMENDMENTS TO THE CLAIMS

The following is a complete, marked-up listing of revised claims with a status identifier in parenthesis, underlined text indicating insertions, and strike through and/or double-bracketed text indicating deletions.

Listing of Claims

1. (Currently Amended) A computer-readable medium storing a data structure managing reproduction of multi-path video data from a computer-readable medium by a reproducing apparatus, comprising:
 - a data area storing the multi-path video data; and
 - a management information area storing title management information, the title management information including a plurality of titles, each title identifying a reproduction path of the multi-path video data for reproduction of the multi-path video data at the reproduction path ~~assigning a plurality of titles to the multi-path video data,~~
 - ~~the title management information including~~ at least one of the titles being an entry title defining a title block reproduction start point during a title jump, the title jump stopping reproduction of video data identified by one of the titles, and beginning reproduction of video data identified by the entry title, and at least one of the titles being a non-entry title that is skipped during the title jump, and
 - ~~each of the titles pertaining to a title block associated with a mutually different reproduction path.~~

2. (Previously Presented) The computer-readable medium of claim 1, wherein each of the titles has type information to identify whether it is entry title or not.

3. (Previously Presented) The computer-readable medium of claim 2, wherein titles not pertaining to the title block are specified to entry titles by the type information.

4. (Previously Presented) The computer-readable medium of claim 1, wherein the entry and non-entry titles pertaining to the title block are regarded as a single title when title jump is conducted and title selection menu is displayed.

5. (Previously Presented) The computer-readable medium of claim 1, wherein, if one title is not selected from the title block within a predetermined time, a video data section associated with a title in the title block specified to an entry title is reproduced.

6. (Previously Presented) The computer-readable medium of claim 1, wherein, if jump to a previous/next title is requested during reproduction of a title pertaining to the title block, another entry title adjacent to and not pertaining to the title block is reproduced.

7. (Previously Presented) The computer-readable medium of claim 1, wherein

the different reproduction paths are assigned to different parental levels, respectively.

8. (Previously Presented) The computer-readable medium of claim 1, wherein each of the titles has information to access a playlist including at least one playitem that points to a part of the multi-path video data.

9. (Previously Presented) The computer-readable medium of claim 1, wherein the title management information includes title selection menu data or information to access title selection menu data.

10. (Currently Amended) A method for computer-readable a data structure for managing reproduction of multi-path video data on a computer-readable medium, comprising:

recording the multi-path video data in a data area on the computer-readable medium; and

recording title management information in a management information area on the computer-readable medium, wherein:

the title management information including a plurality of titles, each title identifying a reproduction path of the multi-path video data for reproduction of the multi-path video data at the reproduction path, includes at least one of the titles being block that is composed of an entry title and at least one of the titles being non-entry title, the at least one entry title defining a title block

reproduction start point during a title jump, the title jump stopping reproduction of video data identified by one of the titles, and beginning reproduction of video data identified by the entry title, and the at least one non-entry title being skipped during the title jump; and

~~the titles pertaining to the title block being associated with mutually different reproduction paths.~~

11. (Currently Amended) An apparatus for recording a data structure managing reproduction of multi-path video data on a recording medium, the apparatus comprising:

a pickup configured to record data on the recording medium;
an encoder configured to encode the multi-path video data; and
a controller, operably coupled to the pickup, configured to control recording the encoded multi-path video data in a data area on the recording medium and title management information in a management information area on the recording medium,

the title management information including a plurality of titles, each title identifying a reproduction path of the multi-path video data for reproduction of the multi-path video data at the reproduction path, at least one of the titles being an entry title defining a title block reproduction start point during a title jump, the title jump stopping reproduction of video data identified by one of the titles, and beginning reproduction of video data identified by the entry title, and at least one of the titled being a non-entry title that is skipped during the title

jump, and

~~each of the titles pertaining to a title block being associated with
mutually different reproduction paths.~~

12. (Currently Amended) A method for reproducing a data structure managing reproduction of multi-path video data from a computer-readable medium by a reproduction apparatus, the method comprising:

reproducing title management information from a management information area on the computer-readable medium; and

reproducing the multi-path video data from a data area on the computer-readable medium based on the title management information,

the title management information including a plurality of titles, each title identifying a reproduction path of the multi-path video data for reproducing the multi-path video data at the reproduction path, at least one of the titles being an entry title defining a title block reproduction start point during a title jump, the title jump stopping reproduction of video data identified by one of the titles, and beginning reproduction of video data identified by the entry title, and at least one of the titles being a non-entry title that is skipped during the title jump, and

~~each of the titles pertaining to the title block being associated with
mutually different reproduction paths.~~

13. (Previously Presented) The method of claim 12, wherein the entry and non-entry titles pertaining to the title block are regarded as a single title when title

jump is conducted and title selection menu is displayed.

14. (Previously Presented) The method of claim 13, further comprising the step of, if jump to a previous/next title is requested during reproduction of a title pertaining to the title block, reproducing another entry title adjacent to and not pertaining to the title block.

15. (Original) The method of claim 13, further comprising the step of displaying one title menu item for all titles pertaining to the title block when a title selection menu is outputted.

16. (Original) The method of claim 12, wherein, if one title is not selected from the title block within a predetermined time, a video data section associated with a title in the title block specified to an entry title is reproduced.

17. (Currently Amended) An apparatus for reproducing a data structure for managing reproduction of multi-path video data recorded on a recording medium, the apparatus comprising:

a pickup configured to reproduce data recorded on the recording medium;

a decoder configured to present the reproduced data; and

a controller, operably coupled to the pickup, configured to control reproducing title management information from a management information area on the recording medium and the multi-path video data from a data area on the

recording medium based on the title management information,

the title management information including a plurality of titles, each title identifying a reproduction path of the multi-path video data for reproducing the multi-path video data at the reproduction path, at least one of the titles being an entry title defining a title block reproduction start point during a title jump, the title jump stopping reproduction of video data identified by one of the titles, and beginning reproduction of video data identified by the entry title, and at least one of the titles being a non-entry title that is skipped during the title jump, and
~~each of the titles pertaining to the title block being associated with mutually different reproduction paths.~~

18. (Previously Presented) The apparatus of claim 17, wherein, if jump to a previous/next title is requested during reproduction of a title pertaining to the title block, the controller is configured to control the pickup to reproduce another entry title adjacent to and not pertaining to the title block.

19. (Previously Presented) The apparatus of claim 17, wherein the controller is configured to control the decoder to present one title menu item for all titles pertaining to the title block when outputting a title selection menu.

20. (Previously Presented) The apparatus of claim 17, wherein, if one title is not selected from the title block within a predetermined time, the controller configured to control the pickup to reproduce a video data section associated

with a title in the title block specified to an entry title.

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END OF CLAIM LISTING